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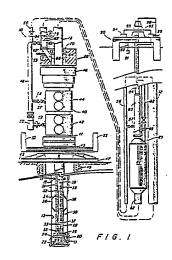
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## Method and apparatus for deepwater drilling.

A method and apparatus for drilling subsea wells in water depths exceeding 3000 feet (preferably exceeding 4000 feet). Drilling mud returns are taken at the seafloor and pumped to the surface by a centrifugal pump (81) that is powered by a seawater driven turbine. A low-differential pressure rotating head (70) seats in the upper tapered portion of the longitudinal throughbore of an upper stack package (60) which is attached to the top of the blowout preventer stack and seals against the drill string (12) as it is run in and out of the borehole. The drilling mud returns are pumped to the surface via a mud return line (82), a conventional riser not being used.





## EUROPEAN SEARCH REPORT

Application Number

88 30 4057

DOCUMENTS CONSIDERED TO BE RELEVANT				]	
Category	Citation of document with of relevant	indication, where approx	riate,	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl. 4)
X Y A	US-A-4 149 603 (A * Whole document *	RNOLD)	13	.,2 7,9,	E 21 B 7/12 E 21 B 21/00 E 21 B 21/08 E 21 B 33/035
Υ	US-A-3 638 721 (H	ARRISON)	1	,2	== 2 00,000
Α	Claim I "		8	,11,12	
A	US-A-3 603 409 (W * Column 3, lines	ATKINS) 49-52 *		0	
Α	US-A-4 063 602 (H * Abstract *	OWELL et al.)	1	,11	
A	US-A-4 291 772 (B * Abstract *	EYNET)	1	,11	
A	US-A-4 046 191 (N * Abstract *	EATH)	1	,11	TECHNICAL FIELDS
					E 21 B
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	The present search report has	been drawn up for all clai	ms		
	Place of search	Date of completion		<del>,                                    </del>	Examiner
THE HAGUE		22-08-19		HEDEMANN, G.A.	
X : partic Y : partic docui A : techn	ATEGORY OF CITED DOCUME cularly relevant if taken alone cularly relevant if combined with an ment of the same category sological background written disclosure	E:	theory or principle un earlier patent docume after the filing date document cited in the document cited for or	derlying the ient, but publise application her reasons	nvention

& : member of the same patent family, corresponding document

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A: technological background
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